



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010369  
CERTIFICATION DATE: December 30, 2013  
DATE RECERTIFICATION DUE: June 28, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

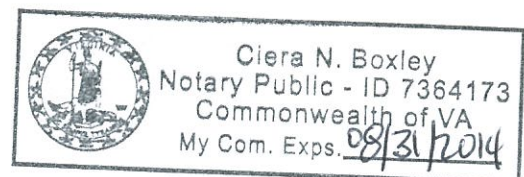
Sarah E. Dersch  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 17<sup>th</sup> day of January, 2014 by Sarah E. Dersch

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 1/2/2014**

*sed*

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<b>Instrument Serial Number:</b>	<b>010369</b>	<b>As of 02-Jan-14</b>
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<b>Maintenance</b>	<b>Certification</b>	<b>Technician</b>	
<b>Date</b>	<b>Date</b>	<b>Initials</b>	<b>Remarks</b>
30-Dec-13	30-Dec-13	SED (24178)	CERTIFIED. REPLACED DRY GAS STANDARD.
19-Jul-13	19-Jul-13	MMB (26417)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
05-Feb-13	05-Feb-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
19-Dec-12	23-Aug-12	SED (24178)	REPLACED DRY GAS STANDARD.
23-Aug-12	23-Aug-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
09-Mar-12	09-Mar-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
12-Dec-11	12-Dec-11	DBH (21250)	MOVED INSTRUMENT TO NEW LOCATION WITHIN SAME FACILITY, CERTIFIED
21-Sep-11	21-Sep-11	SED (24178)	REPLACED DRY GAS STANDARD, CERTIFIED.
11-Apr-11	11-Apr-11	RJP (22428)	CERTIFIED.
29-Oct-10	29-Oct-10	RJP (22428)	CERTIFIED.
04-May-10	04-May-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
10-Nov-09	10-Nov-09	RJP (22428)	CERTIFIED
03-Jun-09	03-Jun-09	RJP (22428)	CERTIFIED.
24-Mar-09	24-Mar-09	RJP (22428)	CERTIFIED.
15-Mar-09	15-Mar-09	NMJ (22392)	REPLACED TANK TOP LID, CERTIFIED.
13-Mar-09	13-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
13-Feb-09	13-Feb-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

Scd

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010369 Worksheet Start Date 12/30/2013  
Location Ft Lee  
Address 1900 Mahone Ave, Ft Lee, VA 23801  
DFS Technician Sarah Dersch License No. 24178

☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 757 Reference Barometer (mm HG) 758  
Reference Barometer(RB)Serial # 009111 RB Calibration Due 5/23/2014

## Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.299
0.300	0.299	0.290	0.307	Sample 2	0.299
Precision		sample min	sample max	Sample 3	0.299
0		0.299	0.299		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.100	0.097	0.103	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.099
0.001		0.099	0.100		

Dry gas standard Lot No. (with tank no.) 227501-13

☒ Replaced dry gas standard (+O- ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:

25  
1 pack

Notes:

Instrument Serial Number

010369

Certification Date

12/30/2013

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.249
0.250	0.249	0.241	0.256	<b>Sample 2</b>	0.248
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.248
0.001		0.248	0.249		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.148
0.150	0.149	0.144	0.153	<b>Sample 2</b>	0.148
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.148
0		0.148	0.148		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.080
0.080	0.080	0.077	0.083	<b>Sample 2</b>	0.080
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.080
0		0.080	0.080		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician



Date

1/2/14

Issuing Analyst



Date

1/2/14

msh

tea

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010369      Test Number: 538  
Test Date: 12/30/2013      Test Time: 12:34 EST

Technician Initials: SED

Dry Gas Target: 0.249

Lot Number: 0651225015-02      Exp Date: 04/01/2014

Tank Pressure: 473 psi      Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:35
BLK	0.000	12:35
CHK	0.249	12:36
BLK	0.000	12:38
CHK	0.248	12:39
BLK	0.000	12:40
CHK	0.248	12:41
BLK	0.000	12:43

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

sed

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010369      Test Number: 539  
Test Date: 12/30/2013      Test Time: 12:45 EST

Technician Initials: SED

Dry Gas Target: 0.149

Lot Number: 0651215014-04      Exp Date: 04/01/2014

Tank Pressure: 977 psi      Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:46
BLK	0.000	12:47
CHK	0.148	12:47
BLK	0.000	12:49
CHK	0.148	12:50
BLK	0.000	12:51
CHK	0.148	12:52
BLK	0.000	12:53

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

gld

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010369      Test Number: 540  
Test Date: 12/30/2013      Test Time: 12:56 EST

Technician Initials: SED

Dry Gas Target: 0.080

Lot Number: 0651208012-06      Exp Date: 04/01/2014

Tank Pressure: 66 psi      Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:56
BLK	0.000	12:57
CHK	0.080	12:58
BLK	0.000	12:59
CHK	0.080	13:00
BLK	0.000	13:01
CHK	0.080	13:02
BLK	0.000	13:04

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*SED*

*Department of Forensic Science*

Serial Number: 010369      Test Number: 541  
Test Date: 12/30/2013      Test Time: 13:06 EST

Technician Initials: *SED*

Dry Gas Target: 0.020

Lot Number: 0651202011-07      Exp Date: 04/01/2014

Tank Pressure: 144 psi      Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	13:07
BLK	0.000	13:08
CHK	0.019	13:08
BLK	0.000	13:10
CHK	0.019	13:10
BLK	0.000	13:12
CHK	0.019	13:13
BLK	0.000	13:14

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



5d

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010369 Test Number: 542

Test Date: 12/30/2013 Test Time: 13:19 EST

Dry Gas Target: 0.299

Lot Number: AG322702-03 Exp Date: 08/15/2015

Tank Pressure: 115 psi Barometric Pressure: 757 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	13:20
CHK	0.299	13:21
BLK	0.000	13:23
CHK	0.299	13:24
BLK	0.000	13:25
CHK	0.299	13:26

Test Status: Success

Calibration CRC: FA87A9B8

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**Intox EC/IR-11: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010369      Test Number: 543

Test Date: 12/30/2013      Test Time: 13:31 EST

Dry Gas Target: 0.100

Lot Number: AG227501-13      Exp Date: 10/01/2014

Tank Pressure: 164 psi      Barometric Pressure: 757 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:31
CHK	0.100	13:32
BLK	0.000	13:34
CHK	0.100	13:35
BLK	0.000	13:36
CHK	0.099	13:37

Test Status: *Success*

Calibration CRC: FA87A9B8




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED  INSTRUMENT, TEST,	NAME OF COURT  DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY  DERSCH, SARAH, E		AGENCY  DFS Central Lab
DFS LICENSE NUMBER  24178	LICENSE EXPIRES  10/01/2014	DATE TEST CONDUCTED  12/30/2013
TEST EQUIPMENT NUMBER  010369		

RESULTS: TIME SAMPLE TAKEN 13:49 EST  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 02 Jan 2014 at 10:01

## Test Results

Instrument Serial Number 010369

Test # 000544 Subject Test

Test Location 1 Department of  
Test Date 30 Dec 2013

Test Location 2 Forensic Science  
Test Time 13:41  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name DERSCH  
Agency DFS Central Lab

Operator's First Name SARAH

Operator's Middle Initial E  
License Number 24178

Card Serial Number 124178

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 30 Dec 2013 End Time 13:51

Result Time 13:49

Result Date 30 Dec 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:41

Data Type BLK

Sample Value 0.000

Sample Time 13:42

Data Type CHK

Sample Value 0.099

Sample Time 13:43

Data Type BLK

Sample Value 0.000

Sample Time 13:44

Data Type SUBJ

Sample Value 0.000

Sample Time 13:46

Data Type BLK

Sample Value 0.000

Sample Time 13:47

Data Type SUBJ

Sample Value 0.000

Sample Time 13:49

Data Type BLK

Sample Value 0.000

Sample Time 13:50

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG227501-13

Standard Expiration Date 10/01/2014

Tank Pressure 154

Barometric Pressure 757 mmHg

Blow Sample Number 1 Blow Duration 3.98 sec

Blow Volume 1759 cc End-of-Blow Time 13:46

Blow Sample Number 2 Blow Duration 1.79 sec

Blow Volume 841 cc End-of-Blow Time 13:48

Blow Sample Number 3 Blow Duration 4.50 sec

Blow Volume 2156 cc End-of-Blow Time 13:49

Tamper Evident Stamp d131b8c6

Test Status Code 0

Test Status Success